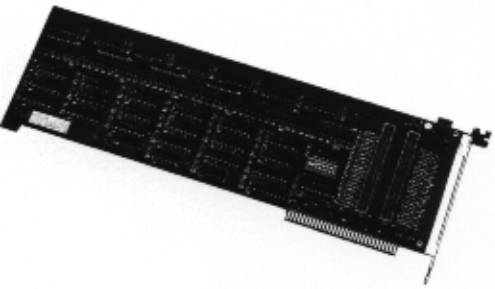
AX5048O

48 Bit Isolated Digital Output Board



Features

- Open-collector outputs
- 48 isolated digital output channels
- Up to 24V outputs and 100mA current sinks
- External power supply voltage 5 to 24V_{DC}
- 2,500 V_{DC} isolation

General Description

AX5048**O** is a 48 - bit isolated digital output board. This board is designed to plug into any IBM PC/ XT/AT or compatible computers. The AX5048**O** is easily programmed using any language.

For AX5048**O**, all digital output channels are open-collector outputs. Each input is capable of high-power current sinks up to 100 mA for actuating external devices such as high voltage/high current relays, switches, alarms, buzzers and LEDs.

Additional feature for AX5048**O** , the external power supply can be used in the range of 5 to 24V_{DC}.

Applications

Digital Output

- Industrial ON/OFF control
- BCD interface driver
- Relays and LEDs ON/OFF control
- Process control

Specifications

Digital Output

- **Channels:** 48
- **Configuration:** Open-collector
- **Output Voltage:** 5 - 24V_{DC}
- **Pull-up Resistor :** 0Ω (default) or user-defined
- **Current Sink:**100mA continuous
- **Throughput Time:**0.1msec Max.
- **Isolation voltage:**2,500V_{DC}

Power Requirements

- **+ 5VDC:** 1A typ.

Physical/Environmental

- **I/O Connector:** 50-pin mating header
- **Dimensions:** 320 × 99mm
- **Weight:** 250g
- **Operating Temperature Range:** 0 to +50 °C
- **Storage Temperature Range:** -10 to +60 °C
- **Relative Humidity:** 0 to 80%, non-condensing

Ordering Guide

- **AX5048O**
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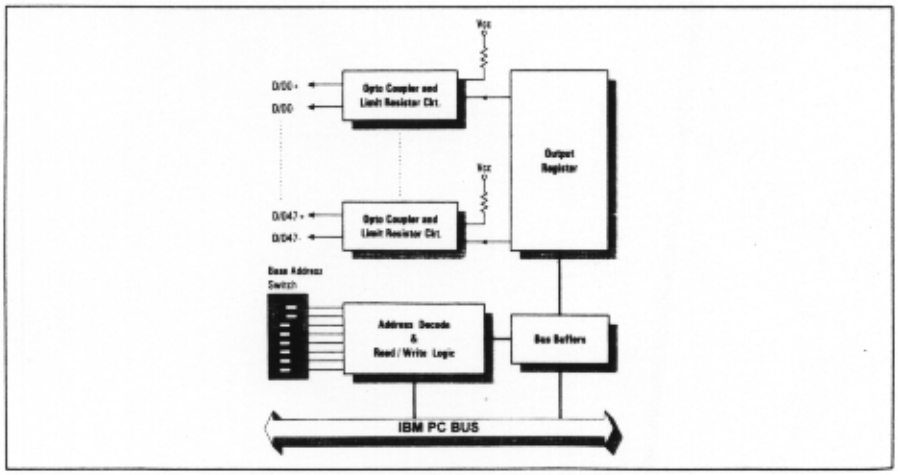
Block Diagram


Opto Coupler and Limit Resistor Ckt.
Output Register
Opto Coupler and Limit Resistor Ckt.
Base Address Switch
Address Decode & Read / Write Logic
Bus Buffers
IBM PC BUS